

MITIGATION MONITORING AND REPORTING PROGRAM - SHINGLE MILL GULCH FISH PASSAGE IMPROVEMENT PROJECT

MITIGATION MEASURE	MONITORING			VERIFICATION	
	Implementati on Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date
BIOLOGICAL RESOURCES					
BIO-1. Implement NMFS protection and minimizations measures listed in Appendix A of the Biotic Assessment by Swanson Hydrology, 12/12/2007 (Attachment 7 of the Initial Study).	See Biotic Assesment	See Biotic Assessment	Pre-Construction, Construction, Post-Construction		
BIO-2a. Pre-construction Surveys. A pre-construction survey for CRLF shall be conducted within the project site within 48 hours before construction begins. The pre-construction survey will include one night survey within 48 hours prior to construction. If CRLF are found on the site the USFWS shall be notified promptly. No construction related activities will begin until either the frog(s) are allowed to leave the site naturally or the USFWS advises that the frog(s) be moved to a designated location by a qualified biologist.	Qualified Biologist	County of Santa Cruz Dept of Public Works. If CRLF are found, then USFWS.	Pre-Construction and Construction if Biological Monitor is needed.		
BIO-2b. Construction worker education/Tail-gate talk. Before construction is allowed to commence all on-site workers will be required to participate in a brief presentation describing the biological and cultural resources of the project area. Workers will be educated on the importance of biological resource conservation and shown images of sensitive species such as CRLF known to occur in the project area. Workers will be directed to cease work if sensitive species are observed and to notify the Biological Monitor.	Biological Monitor	County of Santa Cruz Dept of Public Works.	Pre-Construction and Construction if Biological Monitor is needed.		
BIO-2c. Biological Monitor. If CRLF are found during pre-construction surveys and after the frog(s) have left the site, or been relocated, a qualified biologist will survey the site prior to work each day to ensure no CRLF are on the site. The biologist will have the authority to halt construction work if a CRLF is observed.	Biological Monitor	Biological Monitor	Pre-Construction and Construction if Biological Monitor is needed.		

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BIO-3. Pre-construction Surveys/Nest relocation. A pre-construction survey for woodrat nests will be conducted within the project site within 48 hours before construction begins. If woodrat nests are found on the site in areas that would be disturbed by construction the California Department of Fish and Game (CDFG) will be notified. If the nest cannot be avoided during construction, they would be relocated to suitable habitat. No construction-related activities will begin until the woodrats nests are relocated by a qualified biologist.	Biological Monitor	County of Santa Cruz Dept. of Public Works. If nests are found, then CDFG.	Pre-Construction		
BIO-4. If any native trees are removed as a result of implementing the project they will be replaced, in-kind, at a 3:1 ratio and maintained for 3 years after construction. Areas of native vegetation that area disturbed will be replanted with locally appropriate native tree, shrub and herbaceous species.	Construction Contractor	County of Santa Cruz Dept. of Public Works	Construction, Post-Construction		
HAZARDS & HAZARDOUS MATERIALS					
HAZ-1. The project Spill Prevention and Containment Plan (Appendix 6 of the Initial Study) will be implemented to reduce the potential of a release of hazardous materials (e.g., fuel, hydraulic fluids) and prepare for the unlikely event of a fuel or oil spill. The headwalls for the new culvert will be poured in place and will be isolated from the live stream for 30 days if feasible. If not feasible, a concrete sealant approved by California Department of Fish & Game will be applied prior to any contact between the live stream and the fresh concrete. All concrete cleanup will take place in the staging area and will be done according to standard Best Management Practices (BMP's) regarding concrete work.	Construction Contractor	County of Santa Cruz Dept of Public Works. If a spill occurs, then CDFG or NMFS.	Construction		
NOISE					

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NOS-1. Construction activities will be restricted to the hours of 8 AM through 5 PM, Monday through Friday when the residents are frequently absent. The local residents will be contacted prior to the initiation of construction and be provided a schedule of construction activities.	Construction Contractor	County of Santa Cruz Dept of Public Works.	Construction		
TRANSPORTATION / TRAFFIC					
TRANS-1. The County Department of Public Works, construction contractors and emergency response personnel will prepare an Emergency Response Plan to ensure so that proper equipment and personnel are staged in appropriate areas so that emergency services are not disrupted.	County of Santa Cruz	County of Santa Cruz	Emergency Response Plan prepared prior to Construction; implemented during Construction		
CUMULATIVE IMPACTS					
CU-1. Implement NMFS' recommendations, if any, to reduce cumulative impacts of multiple projects.	Construction Contractor	County of Santa Cruz	Construction		